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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/767,364	01/22/2001	Trung Nguyen	SPLX.P0051	2537	
23349 7	7590 02/17/2004		EXAMINER		
STATTLER. POBOX 5186	JOHANSEN & ADELI	KERVEROS, JAMES C			
PALO ALTO, CA 94303			ART UNIT	PAPER NUMBER	
			2133	E)	
			DATE MAILED: 02/17/2004	. (	

Please find below and/or attached an Office communication concerning this application or proceeding.



		Application	n No.	Applicant(s)				
Office Action Summary		09/767,364	4	NGUYEN ET AL.				
		Examiner		Art Unit	•			
		James C K		2133				
<i>T</i> Period for R	he MAILING DATE of this commu eply	nication appears on the	cover sheet with the c	correspondence address	5			
THE MA - Extension after SIX - If the peri - If NO peri - Failure to Any reply	TENED STATUTORY PERIOD F ILING DATE OF THIS COMMUN s of time may be available under the provision (6) MONTHS from the mailing date of this com od for reply specified above is less than thirty ( od for reply is specified above, the maximum s reply within the set or extended period for repl received by the Office later than three months itent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no ever munication. 30) days, a reply within the statut tatutory period will apply and will y will, by statute, cause the appli	ot, however, may a reply be tin ory minimum of thirty (30) day expire SIX (6) MONTHS from action to become ABANDONE	nely filed s will be considered timely. the mailing date of this commun D (35 U.S.C. § 133).	nication.			
Status								
1)⊠ Re	sponsive to communication(s) fil	ed on <i>28 August 2002</i> .						
•	Responsive to communication(s) filed on <u>28 August 2002</u> . This action is <b>FINAL</b> . 2b) This action is non-final.							
3)☐ Sir								
Disposition	of Claims							
4a) 5)	aim(s) <u>1-11</u> is/are pending in the  Of the above claim(s) is/a aim(s) is/are allowed. aim(s) <u>1-11</u> is/are rejected. aim(s) <u>1-11</u> is/are objected to. aim(s) are subject to restricted.	are withdrawn from con						
Application	Papers							
10)∐ The	e specification is objected to by the drawing(s) filed on is/are plicant may not request that any objections.	e: a)□ accepted or b)[						
	placement drawing sheet(s) including oath or declaration is objected	<u> </u>						
Priority und	er 35 U.S.C. § 119							
a) / 1.[ 2.[ 3.[	Certified copies of the priority Certified copies of the priority	y documents have beer y documents have beer s of the priority docume onal Bureau (PCT Rule	n received. n received in Applicat nts have been receive e 17.2(a)).	ion No ed in this National Stag	je			
Attachment(s)	D. ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (			(0.70, 440)				
2) Notice of 3) Informati	References Cited (PTO-892) Draftsperson's Patent Drawing Review ( on Disclosure Statement(s) (PTO-1449 of (s)/Mail Date		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		)			

Application/Control Number: 09/767,364

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#### **DETAILED ACTION**

#### Specification

The disclosure is objected to because of the following informalities:

The specification does not comply with the preferred layout as indicated below.

The Applicant is require to insert the missing headings where it applicable.

Appropriate correction is required.

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

### Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text are permitted to be submitted on compact discs.) or REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a).

"Microfiche Appendices" were accepted by the Office until March 1, 2001.)

- (e) BACKGROUND OF THE INVENTION.
  - (1) Field of the Invention.
  - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (f) BRIEF SUMMARY OF THE INVENTION.
- (g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (h) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (j) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (k) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a

nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

### Claim Objections

Claims 1-11 are objected to because of the following informalities:

Claims 1, 4, 6, and 9 require a transitional phrase "comprising" between the preamble and the body of the claim.

Claims 4 and 9 require indentation. Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be separated by a line indentation. There may be plural indentations to further segregate subcombinations or related steps. See 37 CFR 1.75 and MPEP § 608.01(m).

Claim 9, on line 1, between "method" and "for", the word "of" should be deleted.

Claims 2-3, 5, 7, 8, 10 and 11 require a comma between a claim number and "wherein".

Appropriate correction is required.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 1-7, 9 and 10 rejected under 35 U.S.C. 103(a) as being unpatentable over Straver et al. (US 4890066) in view of Kobayashi (US 6556535).

Regarding Claims 1-7, 9 and 10, Straver substantially discloses an envelope detector for generating a full-wave rectified signal in response to a differential input signal (Is-Ic) FIG. 2, comprising:

Means differential amplifier (A), for converting the differential input signal (Is-Ic), into a pair of current signals (i1-i2) and the reference voltage (+Vb) to a reference current (I1-I2), as shown in FIG. 2.

Straver does not disclose comparing means to determine if the differential input signal (Is-Ic) is greater than the reference current (I1-I2), and indicating means for indicating the differential signal is valid when it is greater than the reference. Kobayashi, in an analogous art, discloses (FIG. 1) an envelope detector 9 including a comparator 12, which compares the output signal of the amplifier 10 and the reference erasing power value and delivers the result of comparison to the current amplifier 13, which sets an amount of laser diode 14. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to incorporate a comparator 12 and indicating means diode 14, as taught by Kobayashi, in the envelop detector of Straver, for the purpose of determining the differential input signal, since the reference of the comparator can be adjusted accordingly to respond to variations of the differential input signal, thus resulting in a more reliable envelope detection.

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Claims 8 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Straver et al. (US 4890066) in view of Kobayashi (US 6556535), as applied to claims 6 and 9 above, and further in view of Shade et al. (US 4809554).

Regarding Claims 8 and 11, the combined reference of Straver and Kobayashi Straver fails to disclose a Schmitt trigger responsive to the output signal, wherein the output signal is passed through the Schmitt trigger having trigger levels set further apart than a change in the output signal during the switching interval. However, Shade, in an analogous art, discloses (FIG. 1) an envelope detector 29 including a full-wave rectifier 26 coupled to a low-pass filter 36 with the output connected to the input of Schmitt trigger 38. It would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the combined device of Straver and Kobayashi, by connecting the output stage of its filter to a Schmitt trigger, as taught by Shade, for the purpose of detecting the output level corresponding to the differential input signal, since the Schmitt trigger acts as background average device by smoothing the measured points, thus resulting in the reduction of unwanted background noise and erratic measurements.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James C Kerveros whose telephone number is (703) 305-1081. The examiner can normally be reached on 9:00 AM TO 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on (703) 305-9595. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

U.S. PATENT OFFICE

Examiner's Fax: (703) 746-4461 Email: james.kerveros@uspto.gov

Non-Final Rejection

Date: 2/11/04

James C Kerveros

Examiner

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